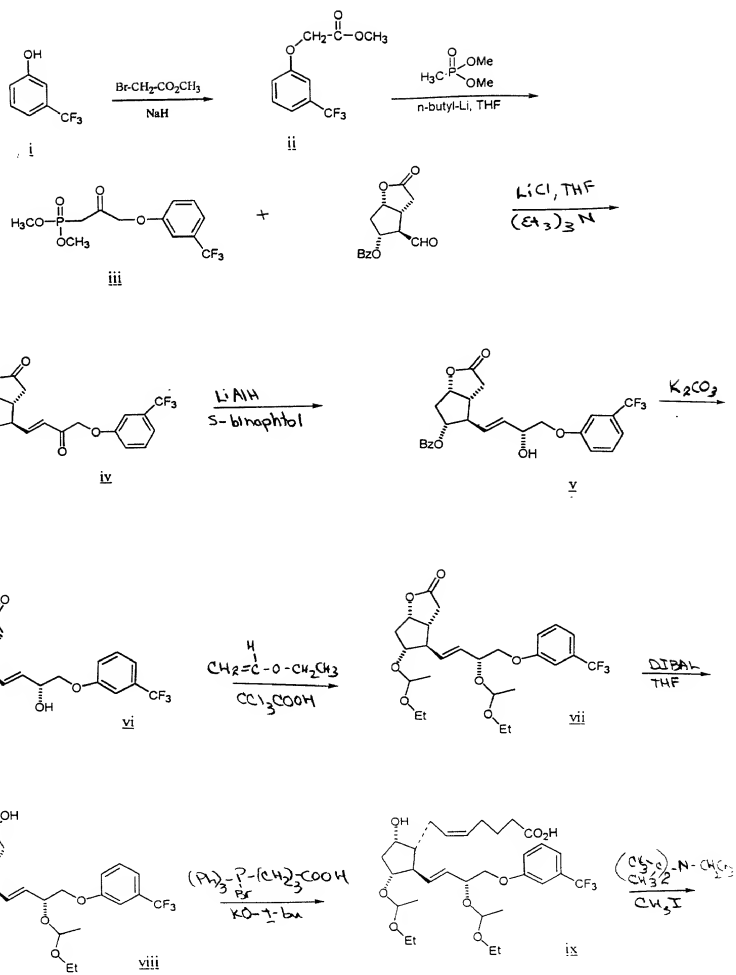
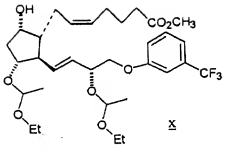
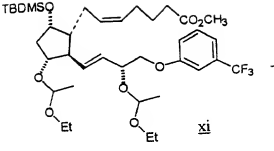

OH
CF3
i
Br-CH2CO2CH3
NaH
CH2-C-OCH3
O
ii
H3C-P(=O)(OMe)OMe
n-butyl-Li, THF
H3CO-P(=O)OCH3
iii
+
BzO
CHO
LiCl, THF
(Et)3N
iv
LiAlH
S-binaphthol
v
K2CO3
vi
CH2=C(H)-O-CH2CH3
CCl3COOH
vii
DIBAL
THF
viii
(Ph)3-P+-(CH2)3-COOH
Br-
KO-t-bu
ix
CO2H
CH3I

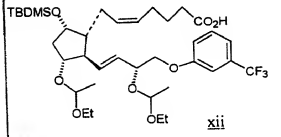
FIG. 1



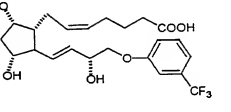
x



xi



xii



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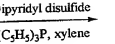
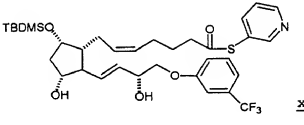
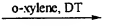
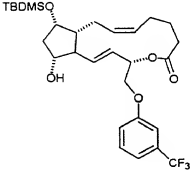


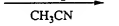


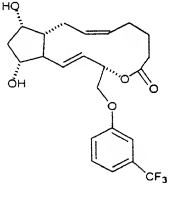
xiv





xv





xvi

Structure IV

FIG. 1

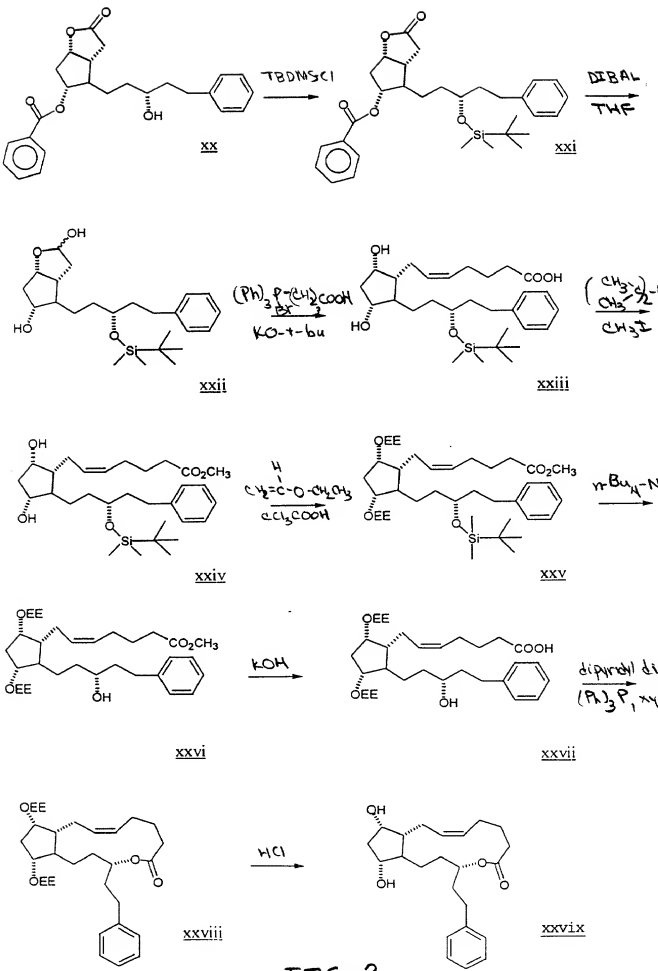


FIG. 2

Structure VI

Control ($PGF_{2\alpha}$ methyl ester) and bovine cornea

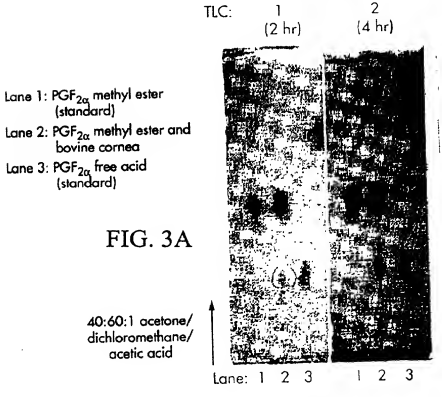


FIG. 3A

FIG. 3B

Fluprostenol 1,15-Lactone and bovine cornea

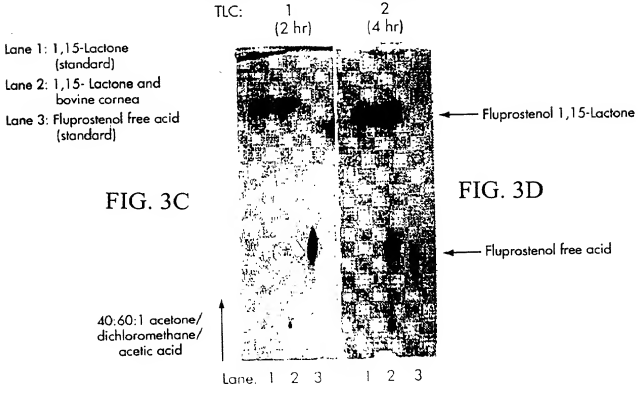


FIG. 3C

FIG. 3D

HPLC analysis of the enzymatic hydrolysis of Fluprostenol 1,15-Lactone

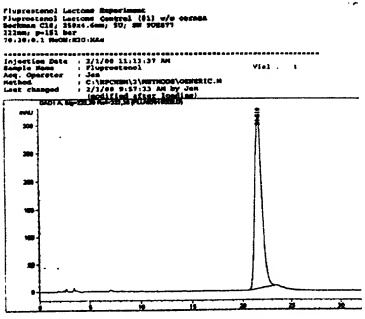


FIG. 4A

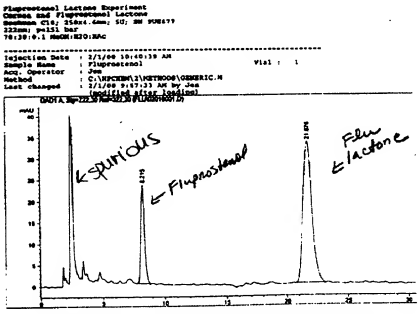


FIG. 4B

Medium from 4 hour incubation of Fluprostenol 1,15-Lactone with bovine cornea